





TACOM - ARDEC SUPPORT TO MILITARY OPERATIONS ON URBAN TERRAIN (MOUT)

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Committed To Excellence



A COMMON VISION



Taking America's Army into the 21st Century Army Vision

TACOM - ARDEC

The World's Best Army, a full spectrum force-trained and ready for victory. A Total Force of quality soldiers and civilians:

- A values-based organization
- An integral part of the Joint Team
- Equipped with the most modern weapons and equipment the Country can provide
- Able to respond to our Nation's needs
- Changing to meet challenges of today . . . tomorrow . . . and the 21st Century.

Tank-automotive & Armaments COMmand

- To make the technology and sustainment systems work for soldiers through the seamless integration of S&T, R&D, Acquisition, Log Sustainment and Soldier Readiness.
- To create a business environment at TACOM where every associate understands the requirement to control costs and manage from the customer perspective and understands their inherent responsibility to do so.

Army Materiel Command Strategic Vision

The leader in equipping and sustaining America's Army through superior technology and responsive support assuring worldwide power projection and decisive victory



TACOM MISSION



AMC -To Generate Warfighting Capability for the Army

-To Sustain the Warfighting Readiness of the Army

-To manage the Army's Investment in S&T, R&D and
Sustainment for the Army

3,341 Weapon Systems
34,138 NSNs
300 Systems in Acq Pipeline

-Serve as the Life Cycle Manager and Integrator for Ground Combat Equipment

Tank-automotive & Armaments COMmand

Research, Develop, Field and Support Mobility and Armament Systems Total Life Cycle To Support Army Readiness

Combat Vehicles Fuel & Water Distribution Eqpt Mortars Rail

Tactical Vehicles Sets, Kits & Outfits Rifles Watercraft

Trailers Shop Equipment Machine Guns Petro & Lub Eqpt

Construction Equipment Chemical Defense Equipment Ammo

Materiel Handling EquipmentHowitzers

Aircraft Armaments

Tactical Bridges Large Caliber Guns Demolitions & Explosives

Committed To Excellence





WHY MOUT EMPHASIS?

↑ 1994 Military Operations in Built-up Areas (MOBA) Study, U.S. Forces Vulnerable in MOUT

▲ Difficulties Include: Modern Construction with Reinforced Walls, Densely Compacted Areas, High Rise Buildings, Electro-magnetic Interference, Non-Combatants and Restrictive Rules of Engagement, Reduced Line of Sight



▲ Led to MOUT-ACTD, First Funded FY97



PRIORITIZED "ENGAGEMENT" REQUIREMENTS



R25 Non-lethal - Family of Tools for Variety of Scenarios

R16 Defeat Booby Traps - Detect and Disarm Booby Traps and Mines

R27 Demolitions - Man-sized Hole in Concrete, Direct Application

R29 Precision Mortar - Multi-spectral Smoke, NL and IR Illumination

R30 Non-Explosive Door Breach - Quiet/Stealth & Quick Shoot-Through

R34 Soft Grenade - Incapacitates but Limits After Effects (Flash Bang)

R37 Point Munition - Defeat Vehicle, Bunker, Wall; Remote Fire

R31 NL Training Munition - Safe, Blunt Impact Ammo For 5.56mm

R21 **Hands Free Sling** - M16, M4 and M249

R8 Remote Marking - Buildings, Walls, Vehicles, Personnel

R24 Soft Round - Provides Incapacitation but Limits Behind Wall Effects

Green - Success

Blue- Partial Solution

Red - Gov/Industry Challenge

Black - Not Evaluated Under MOUT-



AMC GOVERNMENT/INDUSTRY CHALLENGE



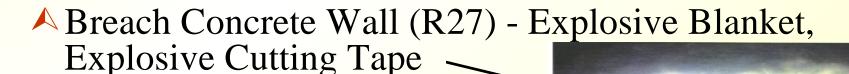
- ▲MOUT-ACTD Provides Excellent Start
- Remaining Challenges = Opportunities
- ▲ Industry Involvement Critical To Meeting Remaining Challenges



PROMISING MOUT-ACTD ENGAGEMENT SOLUTIONS



Non-Explosive Breach (R30) - Rifle Launched Entry Munition (RLEM)







POST-MOUT-ACTD **DEVELOPMENTAL SOLUTIONS**



TACOM

- Non-Lethal
- Recoilless Rifles; Large and Small Caliber
- Rifle Grenades
- Improved Shoulder Launched Weapons (MISER, Enhanced Warhead BDM)
- Virtual Reality Modeling
- Precision Guided Mortar Munition (PGMM)

▲ OICW/OCSW

Full Solution Fire Control System Power Supply



5.56mm Magazine Ambidextrous **User Controls**

20mm Magazine



TACOM - ARDEC PLAN



- Develop Capability Matrix
 - → TACOM-ARDEC Materiel
 - → Joint Services
 - → National Labs
 - →Industry
- ▲ Revisit Requirements Within Joint User/Developer Community (CY99)
 - →Expand/Refine
 - →Industry Day 2Q00, To be announced in CBD
- Develop Coordinated Materiel Solution Priorities Matrix
- Seek Funds/Execute Programs







- ▲TACOM ARDEC Has Lead on Engagement
- Coordinate and Focus Future Efforts
 - → New/Revised Requirements
 - → POST-ACTD Challenges
- ▲ Industry Involvement Critical



TACOM - ARDEC MOUT WEBSITE





Military Operations
On
Urban Terrain
(MOUT)

Team



<u> №3.pica.army.mil/ccac/ccl/mout</u>